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CNAS L0446

GRGTEST

Page 1 of 39

# Test Report

Verified code: 209153

Report No.: E20240410840201-5

Customer: Lumi United Technology Co., Ltd

Address: Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

Sample Name: Smart Lock U50

Sample Model: DL-D05D

Receive Sample Date: Apr.11,2024

Test Date: Apr.15,2024 ~ Apr.17,2024

Reference Document: AS/NZS CISPR 32:2015 Electromagnetic compatibility of multimedia equipment —Emission Requirements

Test Result: Pass

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Approved by: Xiao Liang  
Xiao Liang

GRG METROLOGY & TEST GROUP CO., LTD.

Issued Date: 2024-05-11

GRG METROLOGY & TEST GROUP CO., LTD.

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## Statement

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2. The sample information is provided by the client and responsible for its authenticity; The content of the report is only valid for the samples sent this time.
3. When there are reports in both Chinese and English, the Chinese version will prevail when the language problems are inconsistent.
4. If there is any objection concerning the report, please inform us within 15 days from the date of receiving the report.
5. Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda.

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**REPORT ISSUED HISTORY**

Report Version	Report No.	Description	Compile Date
1.0	E20240410840201-5	Original Issue	2024-04-30

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## 1. TEST RESULT SUMMARY

### Emissions

Test Item	Test mode	Equipment test requirement	Test Method	Class / Severity	Test Result
Radiated Emission	Mode 1,2,3,4	AS/NZS CISPR 32:2015	AS/NZS CISPR 32:2015 C.3.4	Table A.4 Class B Table A.5 Class B	PASS
Conducted Emission	Mode 3,4	AS/NZS CISPR 32:2015	AS/NZS CISPR 32:2015 C.3.5	Table A.10 Class B	PASS

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## 2. GENERAL DESCRIPTION OF EUT

### 2.1 APPLICANT

Name: Lumi United Technology Co., Ltd  
Address: Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

### 2.2 MANUFACTURER

Name: Lumi United Technology Co., Ltd  
Address: Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

### 2.3 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Product Name: Smart Lock U50  
Product Model: DL-D05D  
Adding Model: DL-D05E  
Models Difference: They have the same technical construction including circuit diagram PCB layout, hardware version and software version identical, except the model name.  
Trade Name: Aqara  
Power supply: DC 6V power supplied by 4 AA batteries with the rear lock, DC 5V supplied by USB-C emergency port with the front lock.  
Frequency Band: 2402MHz-2480MHz for BLE, 2405MHz-2475MHz for Zigbee, 13.56MHz for NFC  
Hardware Version: V3.1  
Software Version: 1.0.4\_0007  
Sample submitting way:  Provided by customer  Sampling  
Sample No: E20240410840201-0001

Note: 1. The basic description of the EUT is provided by the applicant. This report is made Solely on the basis of such data and/or information. We accept no responsibility for the authenticity and completeness of the above data and information and the validity of the results and/or conclusions.

2. The bluetooth and zigbee RF chip in the rear lock, and the NFC chip in the front lock.

## 2.4 TEST MODE

Mode No.	Description of the modes
Mode 1	The EUT is power supply is AA battery(DC 6V) ,the EUT connects to the gateway through mobile phone pairing and put the card to control the unlocking through the NFC.
Mode 2	The EUT is power supply is AA battery(DC 6V),the EUT connects to the gateway through mobile phone pairing and controls the unlocking through the mobile phone, the EUT NFC is in standby mode.
Mode 3	The EUT is power supply is the emergency power supply Type-C(DC 5V)port ,the EUT connects to the gateway through mobile phone pairing and put the card to control the unlocking through the NFC.
Mode 4	The EUT is power supply is the emergency power supply Type-C(DC 5V)port,the EUT connects to the gateway through mobile phone pairing and controls the unlocking through the mobile phone, the EUT NFC is in standby mode.

## 2.5 EUT OPERATING DESCRIPTIONS

No.	Operating description
a)	Mode 1&Mode 3:The mobile phone and gateway are connected to the external network of the router, and the EUT is connected to the gateway zigbee through the pairing of aqara home software on the mobile phone, and the Bluetooth connection is maintained in the mobile phone, and put the card to EUT controls the unlocking through the NFC.
b)	Mode 2&Mode 4: The mobile phone and gateway are connected to the external network of the router, and the EUT is connected to the gateway zigbee through the pairing of aqara home software on the mobile phone, and the Bluetooth connection is maintained with the mobile phone, the aqara home software on the mobile phone controls the EUT in the unlocked state, the EUT NFC is in standby state.

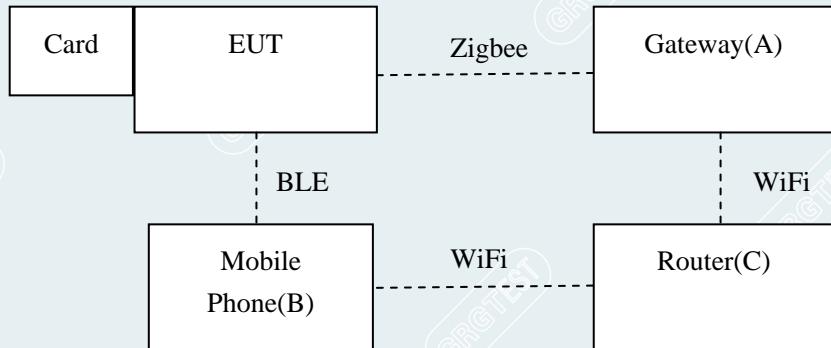
## 2.6 LOCAL SUPPORTIVE INSTRUMENTS

No.	Name of Equipment	Manufacturer	Model	Serial Number	Note
A	Gateway	Aqara	Hub M1S	/	/
B	Mobile phone	OPPO	OPPO R11S	7fa9dc95	/
C	Router	/	/	/	/
D	Adapter	/	/	/	/
E	Card	/	/	/	/

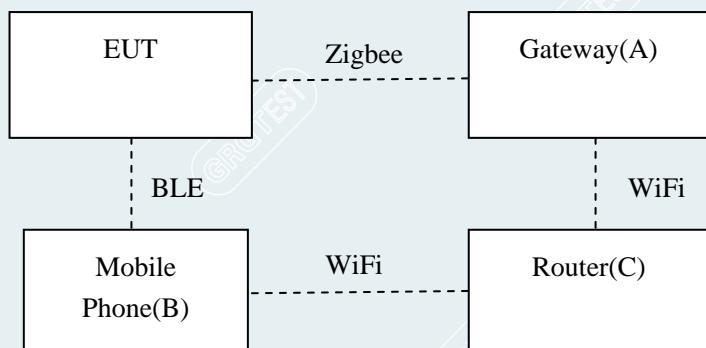
No.	Cable Type	Qty.	Shielded Type	Ferrite Core(Qty.)	Length
1	USB cable	1	No	/	1.0m

## 2.7 CONFIGURATION OF SYSTEM UNDER TEST

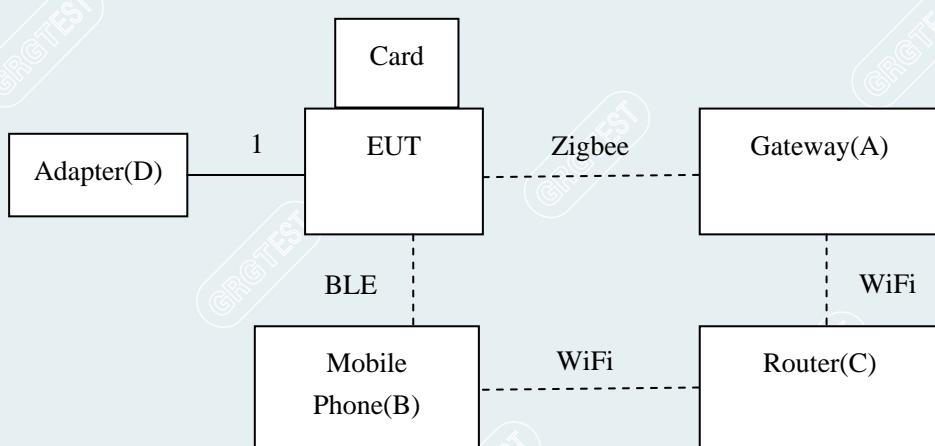
For mode 1



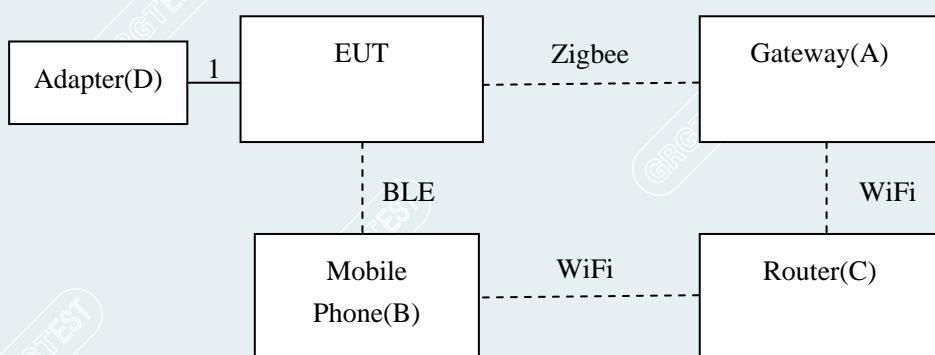
For mode 2



For mode 3



For mode 4



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### 3. LABORATORY AND ACCREDITATIONS

#### 3.1 LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of GRG METROLOGY & TEST GROUP CO., LTD.

Add.: No.1301 Guanguang Road Xinlan Community, Guanlan Street, Longhua District  
Shenzhen, 518110, People's Republic of China.

P.C.: 518110

Tel : 0755-61180008

Fax: 0755-61180008

#### 3.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

**China** CNAS(L0446)

Copies of granted accreditation certificates are available for downloading from our web site,  
<http://www.grgtest.com>

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#### 4. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Uncertainty
Radiated Emission	30MHz~200MHz(H)	4.6dB <sup>1)</sup>
	200MHz~1000MHz(H)	4.8dB <sup>1)</sup>
	1GHz~12.75GHz(H)	5.0dB <sup>1)</sup>
	30MHz~200MHz(V)	4.7dB <sup>1)</sup>
	200MHz~1000MHz(V)	4.7dB <sup>1)</sup>
	1GHz~12.75GHz(V)	5.1dB <sup>1)</sup>
Conduction Emission	150kHz~30MHz	3.3dB <sup>1)</sup>
Note: <sup>1)</sup> This uncertainty represents an expanded uncertainty expressed at approximately the 95%. This uncertainty represents an expanded uncertainty factor of $k=2$ .		

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## 5. LIST OF USED TEST EQUIPMENT AT GRGT

### 5.1 LIST OF USED TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
<b>Radiated Emission (Below 1GHz)</b>				
Test S/W	FARAD	EZ	CCS-03A1	/
Test Receiver	R&S	ESR26	101758	2024-09-22
Preamplifier	SHIRONG ELECTRONIC	DLNA-30M1G-G41	20200928002	2024-10-24
Bi-log Antenna	Schwarzbeck	VULB 9160	VULB9160-3401	2024-12-04
<b>Radiated Emission (Above 1GHz)</b>				
Test software	Tonscend	JS32-RE	/	/
Spectrum Analyzer	R&S	ESR26	101758	2024-09-22
Preamplifiers	Tonscend	TAP01018048	AP20E8060075	2025-03-01
Preamplifier	SHIRONG ELECTRONIC	DLNA-1G18G-G40	20200928005	2024-08-17
Horn antenna	Schwarzbeck	BBHA 9120D	02143	2024-09-23
<b>Conduction Emission</b>				
EZ-EMC	FARAD	EZ_EMCA	CCS-3A1-CE	/
EMI Receiver	R&S	ESCI	100783	2024-08-11
LISN(EUT)	R&S	ENV216	101543	2024-09-10

Note: The calibration interval of the test instruments is 12 months.

## 6. EMISSION TEST

### 6.1 RADIATED EMISSION MEASUREMENT (RE)

Test Requirement: AS/NZS CISPR 32:2015

Test Method: EN 55032 /annex A.2

#### 6.1.1 LIMITS

The ancillary equipment shall meet the class B limits given in CENELEC EN 55032 [1], annex A tables A.4 and A.5.

**Table A.4 – Requirements for radiated emissions at frequencies up to 1 GHz for class B equipment**

Frequency range(MHz)	Distance (m)	Bandwidth	Limits (dBuV/m)		
			Peak (PK)	Quasi-peak (QP)	Average (Avg)
30~230	3	120kHz	/	40	/
230~1000	3	120kHz	/	47	/

**Table A.5 – Requirements for radiated emissions at frequencies above 1 GHz for class B equipment**

Frequency range(MHz)	Distance (m)	Bandwidth	Limits (dBuV/m)		
			Peak (PK)	Quasi-peak (QP)	Average (Avg)
1000~3000	3	1MHz	70	/	50
3000~6000	3	1MHz	74	/	54

## 6.1.2 TEST PROCEDURE

### (1) Procedure of Preliminary Test

Radiated emission tests shall be made with the receive or transmit antenna located at a horizontal distance of 3m plus half of the maximum width of the EUT being tested, measured from the centre of the EUT. The tests shall be performed with the equipment configured as closely as possible to its typical, practical operation. Unless stated otherwise, cables and wiring shall be as specified by the manufacturer and the equipment shall be in its housing (or cabinet) with all covers and access panels in place. Any deviation from normal EUT operating conditions shall be included in the test report.

The EUT (on a non-conductive support structure, where applicable) shall be placed on a remotely operated turntable, to allow the EUT to be rotated. The height of the EUT above the ground plane shall be according to the following requirements.

-- Table-top equipment is placed on a non-conductive set-up table with height  $0.8\text{ m} \pm 0.01\text{ m}$ , CISPR 16-1-4 specifies the method to determine the impact of the non-conductive set-up table on test results.

-- Floor-standing equipment is placed on a non-conductive support, as specified in the applicable product standard. If there are no EUT height placement requirements in the product standard, the EUT shall be placed on a non-conductive support at a height of 5 cm to 15 cm above the ground plane.

Note: This is table-top equipment.

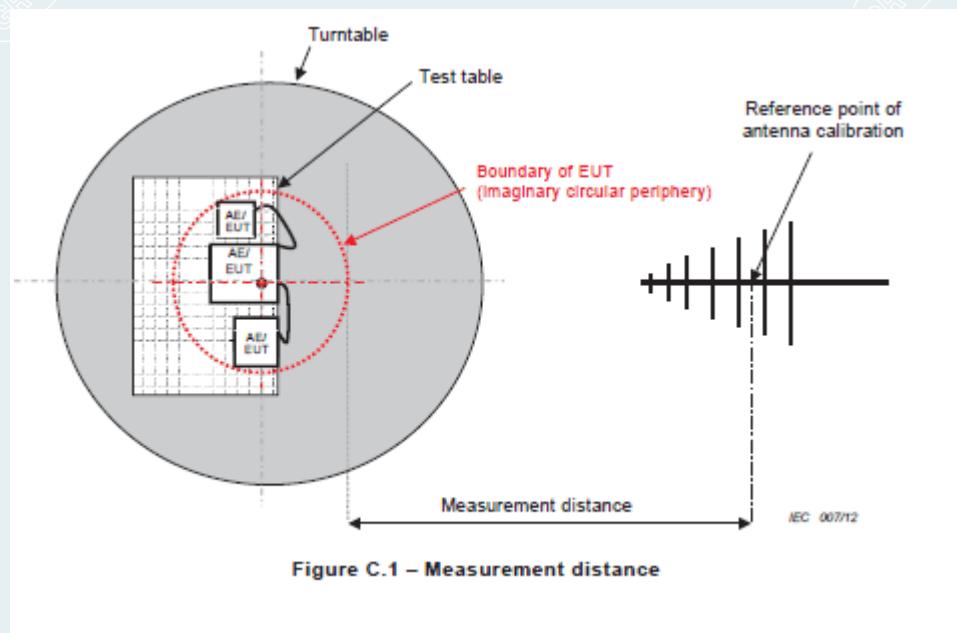
Interface cables, loads, and devices should be connected to at least one of each type of the interface ports of the EUT and, where practical, each cable shall be terminated in a device typical for its actual use. Where there are multiple interface ports of the same type, a typical number of these devices shall be connected to devices or loads. It is sufficient to connect only one of the loads, provided that it can be shown, for example by preliminary testing, that the connection of further ports would not significantly increase the level of disturbance (that is, more than 2 dB) or significantly degrade the immunity level.

The test mode(s) were scanned during the preliminary test. After the preliminary scan, we found the test mode producing the highest emission level. The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.

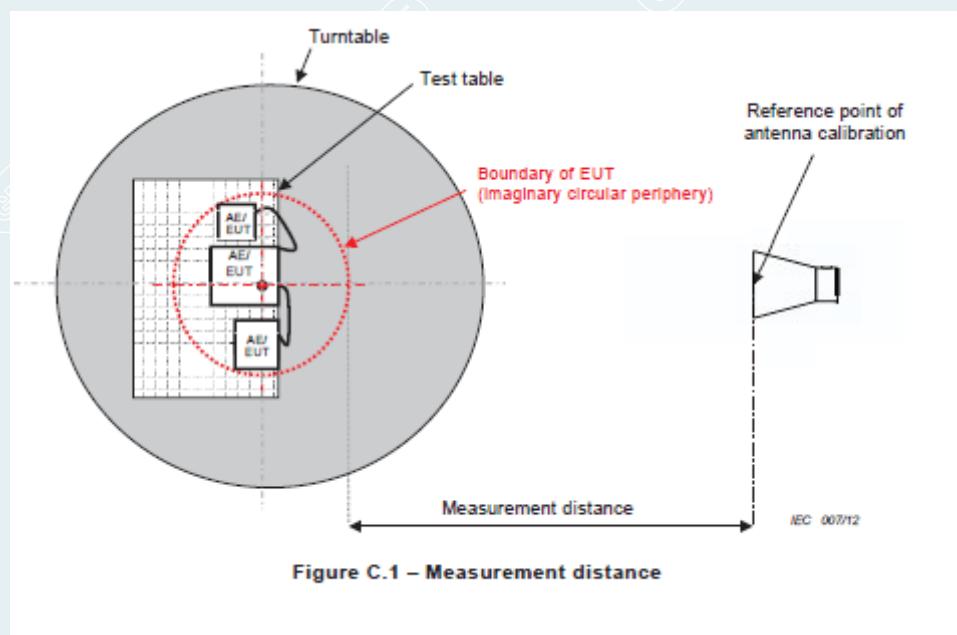
### (2) Procedure of Final Test

EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test. The Analyzer/ Receiver scanned from 30MHz to 1000MHz and 1000MHz to 6000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level. Record at least six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and for 30MHz~1000MHz only QP reading is presented, for 1000MHz~6000 MHz Peak and AVG reading is presented.

### 6.1.3 TEST SETUP



Below the frequency of 1GHz



Above the frequency of 1GHz(1GHz-6GHz)

### 6.1.4 DATA SAMPLE

#### Below 1GHz

Suspected Data List										
NO.	Freq. [MHz]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
xxxx	xxxx	64.21	34.78	-29.43	40.00	5.22	PK	100	13	Horizontal

Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	QP Limit [dB $\mu$ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	
xxxx	xxxx	-29.43	62.25	32.82	40.00	7.18	100	13	Horizontal	

Frequency (MHz)

= Emission frequency in MHz

Reading (dB $\mu$ V/m)

= Uncorrected Analyzer / Receiver reading

Level (dB $\mu$ V/m)= Reading (dB $\mu$ V/m) + Factor (dB)Limit (dB $\mu$ V/m)

= Limit stated in standard

Margin (dB)

= Level (dB $\mu$ V/m) – Limit(dB $\mu$ V/m)

PK

= Peak Reading

QP

= Quasi-peak Reading

#### 1GHz-6GHz

No.	Freq. [MHz]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
xxx	xxxx	78.01	55.30	-22.71	74.00	18.70	100	50	Horizontal	Peak
xxx	xxxx	66.37	43.66	-22.71	54.00	10.34	100	50	Horizontal	AVG

Frequency (MHz)

= Emission frequency in MHz

Reading (dB $\mu$ V)

= Uncorrected Analyzer / Receiver reading

Level (dB $\mu$ V/m)= Reading (dB $\mu$ V/m) + Factor (dB)Limit (dB $\mu$ V/m)

= Limit stated in standard

Margin (dB)

= Limit(dB $\mu$ V/m) - Level(dB $\mu$ V/m)

Peak

= Peak Reading

AVG

= Average Reading

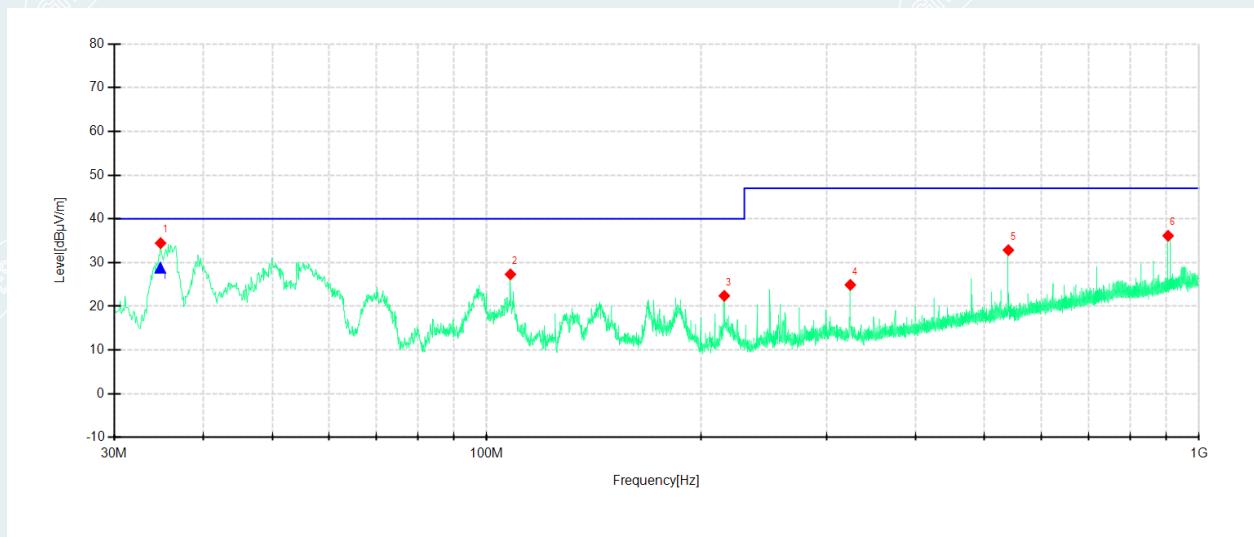
### 6.1.5 PHOTOGRAPH OF THE TEST ARRANGEMENT

Please refer to the attached document E20240410840201-6 Test photo

### 6.1.6 TEST RESULTS

Below 1GHz

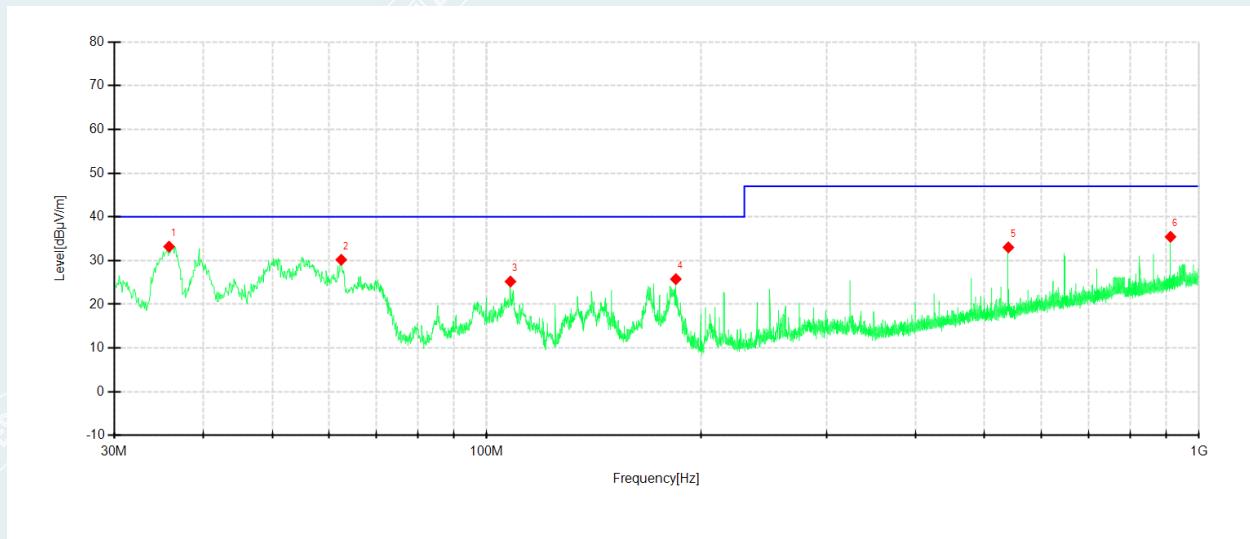
EUT Name	Smart Lock U50	Model	DL-D05D
Environmental Conditions	23.1 °C/51%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 6V	Tested By	Zhang Zishan
Test Date	2024-04-15	Sample No.	E20240410840201-0001



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
1	34.8500	64.10	34.46	-29.64	40.00	5.54	PK	100	19	Horizontal
2	107.9880	58.17	27.32	-30.85	40.00	12.68	PK	200	34	Horizontal
3	215.5610	53.58	22.40	-31.18	40.00	17.60	PK	100	4	Horizontal
4	324.0070	51.60	24.91	-26.69	47.00	22.09	PK	200	155	Horizontal
5	540.0260	53.36	32.86	-20.50	47.00	14.14	PK	200	34	Horizontal
6	905.0370	51.60	36.14	-15.46	47.00	10.86	PK	100	286	Horizontal

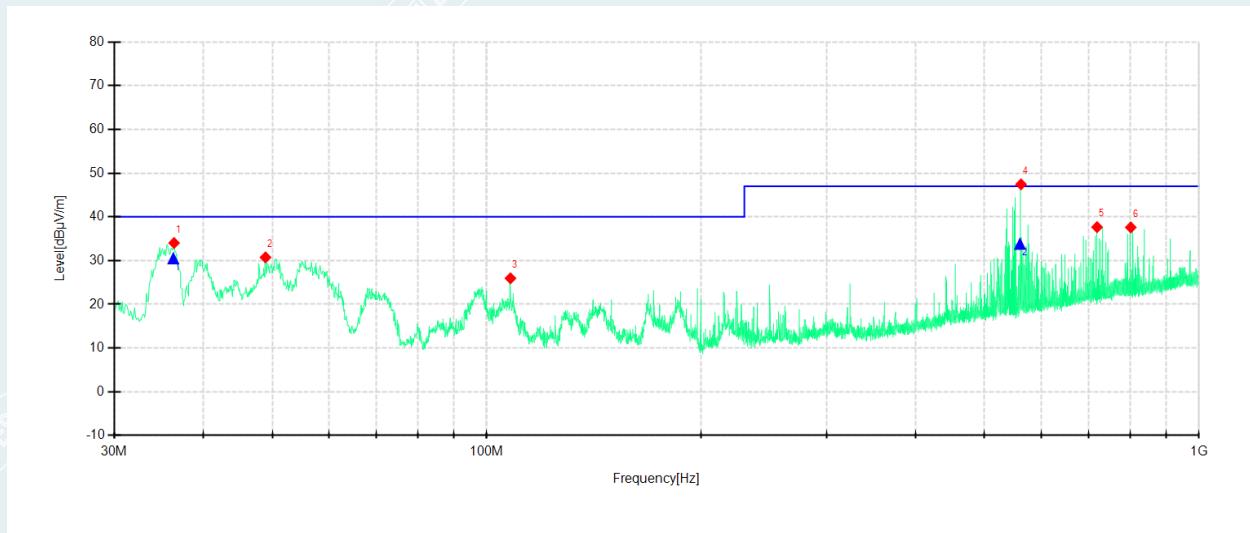
Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	34.8117	-29.64	58.44	28.80	40.00	11.20	101	82.1	Horizontal	PASS

EUT Name	Smart Lock U50	Model	DL-D05D
Environmental Conditions	23.1 °C/51%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 6V	Tested By	Zhang Zishan
Test Date	2024-04-15	Sample No.	E20240410840201-0001

**Suspected Data List**

NO.	Freq. [MHz]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
1	35.8200	62.77	33.20	-29.57	40.00	6.80	PK	100	87	Vertical
2	62.4950	60.09	30.20	-29.89	40.00	9.80	PK	100	360	Vertical
3	107.9880	56.07	25.22	-30.85	40.00	14.78	PK	200	151	Vertical
4	184.3270	56.13	25.77	-30.36	40.00	14.23	PK	100	277	Vertical
5	540.0260	53.53	33.03	-20.50	47.00	13.97	PK	100	100	Vertical
6	912.1180	50.76	35.45	-15.31	47.00	11.55	PK	200	339	Vertical

EUT Name	Smart Lock U50	Model	DL-D05D
Environmental Conditions	23.1 °C/51%RH/101.0kPa	Test Mode	Mode 2
Power supply	DC 6V	Tested By	Zhang Zishan
Test Date	2024-04-15	Sample No.	E20240410840201-0001

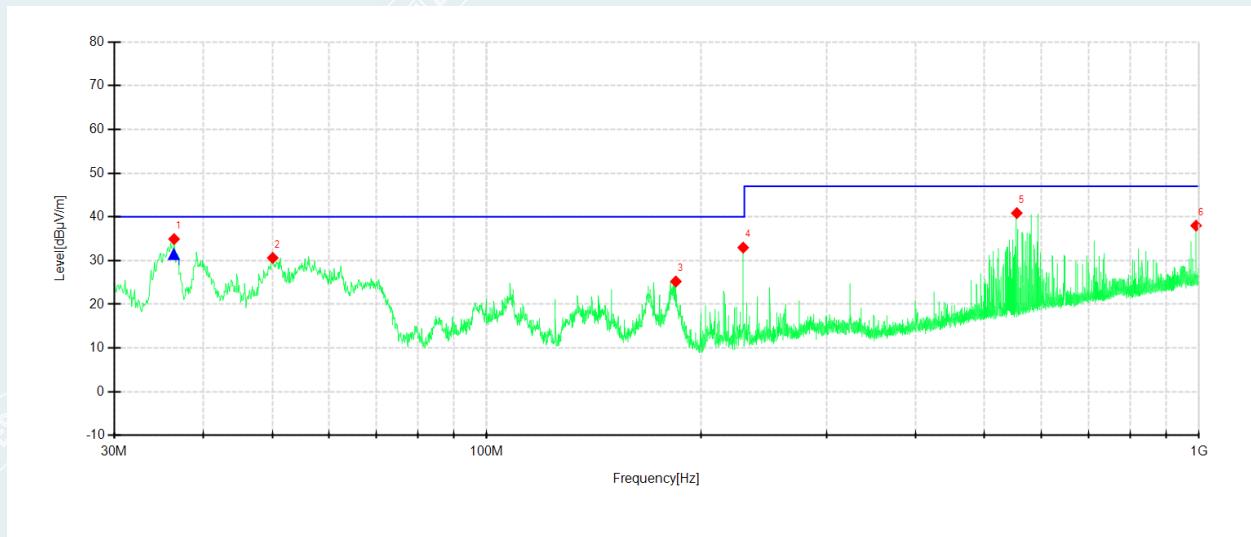
**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
1	36.4020	63.58	34.04	-29.54	40.00	5.96	PK	100	17	Horizontal
2	48.9150	59.62	30.74	-28.88	40.00	9.26	PK	100	17	Horizontal
3	107.9880	56.80	25.95	-30.85	40.00	14.05	PK	200	353	Horizontal
4	562.5300	67.52	47.45	-20.07	47.00	-0.45	PK	200	73	Horizontal
5	719.2820	55.23	37.67	-17.56	47.00	9.33	PK	100	164	Horizontal
6	802.1200	54.27	37.60	-16.67	47.00	9.40	PK	100	110	Horizontal

**Final Data List**

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	36.3103	-29.54	60.01	30.47	40.00	9.53	100	297.5	Horizontal	PASS
2	560.6088	-20.07	53.87	33.80	47.00	13.20	136	257.4	Horizontal	PASS

EUT Name	Smart Lock U50	Model	DL-D05D
Environmental Conditions	23.1 °C/51%RH/101.0kPa	Test Mode	Mode 2
Power supply	DC 6V	Tested By	Zhang Zishan
Test Date	2024-04-15	Sample No.	E20240410840201-0001



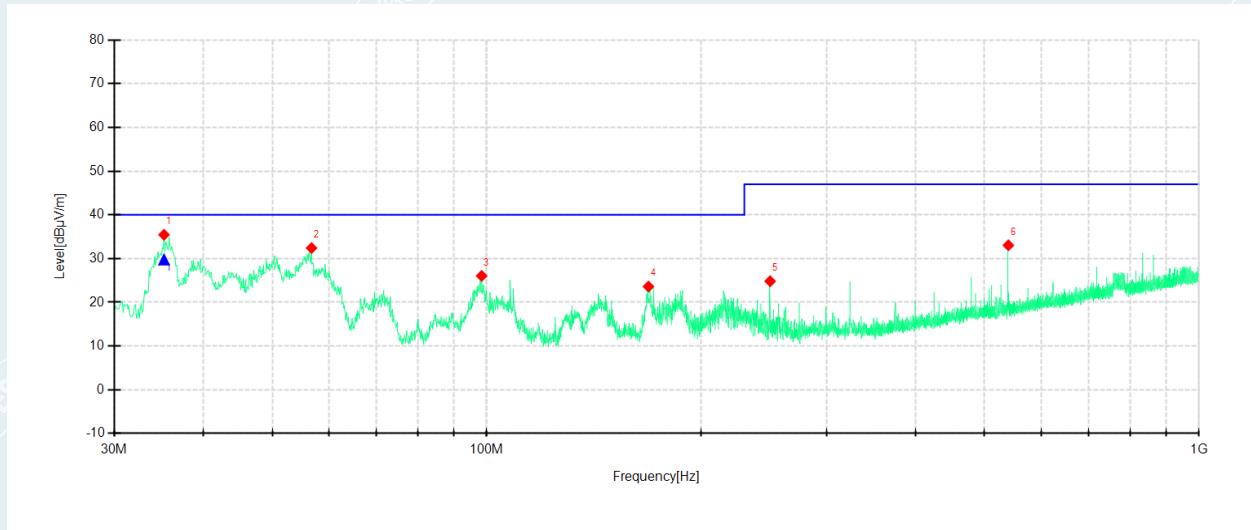
#### Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
1	36.4020	64.47	34.93	-29.54	40.00	5.07	PK	100	88	Vertical
2	50.0790	59.46	30.62	-28.84	40.00	9.38	PK	100	262	Vertical
3	184.3270	55.59	25.23	-30.36	40.00	14.77	PK	100	289	Vertical
4	229.1410	63.13	32.98	-30.15	40.00	7.02	PK	100	181	Vertical
5	554.9640	61.22	40.87	-20.35	47.00	6.13	PK	100	181	Vertical
6	990.6880	52.22	38.01	-14.21	47.00	8.99	PK	100	181	Vertical

#### Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	36.3699	-29.54	60.99	31.45	40.00	8.55	100	24.5	Vertical	PASS

EUT Name	Smart Lock U50	Model	DL-D05D
Environmental Conditions	23.1 °C/51%RH/101.0kPa	Test Mode	Mode 3
Power supply	AC 230V/50Hz	Tested By	Zhang Zishan
Test Date	2024-04-15	Sample No.	E20240410840201-0001



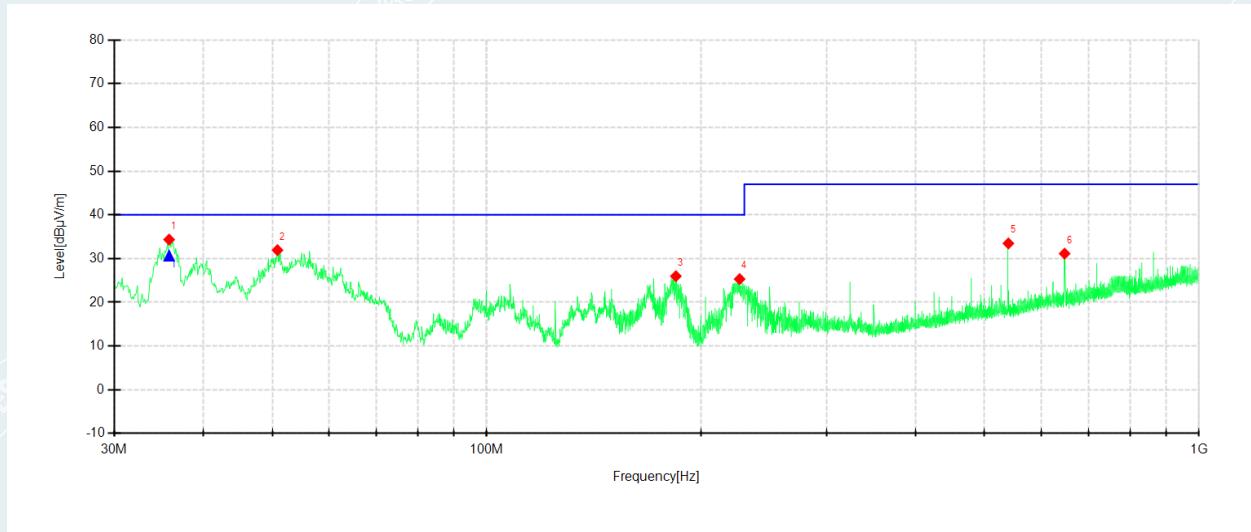
#### Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
1	35.2380	65.07	35.46	-29.61	40.00	4.54	PK	100	195	Horizontal
2	56.7720	61.72	32.43	-29.29	40.00	7.57	PK	100	344	Horizontal
3	98.3850	58.29	26.05	-32.24	40.00	13.95	PK	200	0	Horizontal
4	168.7100	52.49	23.61	-28.88	40.00	16.39	PK	100	20	Horizontal
5	249.9960	54.25	24.83	-29.42	47.00	22.17	PK	100	221	Horizontal
6	540.0260	53.55	33.05	-20.50	47.00	13.95	PK	200	32	Horizontal

#### Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	35.2380	-29.61	59.36	29.75	40.00	10.25	100	195	Horizontal	PASS

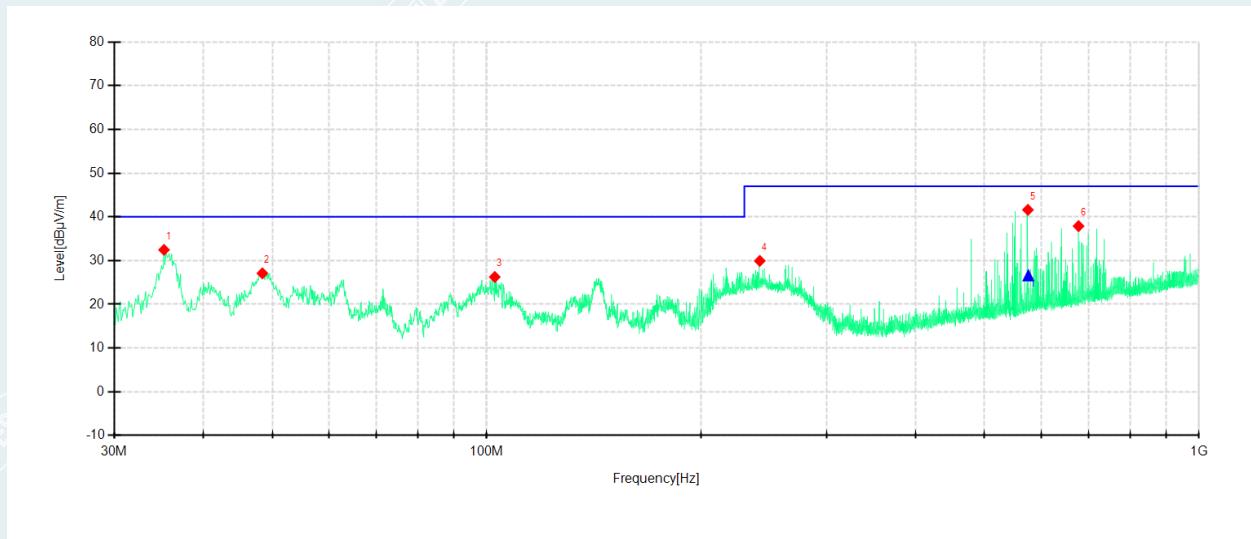
EUT Name	Smart Lock U50	Model	DL-D05D
Environmental Conditions	23.1 °C/51%RH/101.0kPa	Test Mode	Mode 3
Power supply	AC 230V/50Hz	Tested By	Zhang Zishan
Test Date	2024-04-15	Sample No.	E20240410840201-0001



Suspected Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
1	35.8200	63.92	34.35	-29.57	40.00	5.65	PK	100	327	Vertical
2	50.8550	60.83	31.94	-28.89	40.00	8.06	PK	100	287	Vertical
3	184.3270	56.34	25.98	-30.36	40.00	14.02	PK	100	192	Vertical
4	226.5220	55.70	25.32	-30.38	40.00	14.68	PK	100	192	Vertical
5	540.0260	53.98	33.48	-20.50	47.00	13.52	PK	100	177	Vertical
6	647.6960	49.94	31.15	-18.79	47.00	15.85	PK	100	84	Vertical

Final Data List										
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	35.8200	-29.57	60.21	30.64	40.00	9.36	100	327	Vertical	PASS

EUT Name	Smart Lock U50	Model	DL-D05D
Environmental Conditions	23.1 °C/51%RH/101.0kPa	Test Mode	Mode 4
Power supply	AC 230V/50Hz	Tested By	Zhang Zishan
Test Date	2024-04-15	Sample No.	E20240410840201-0001



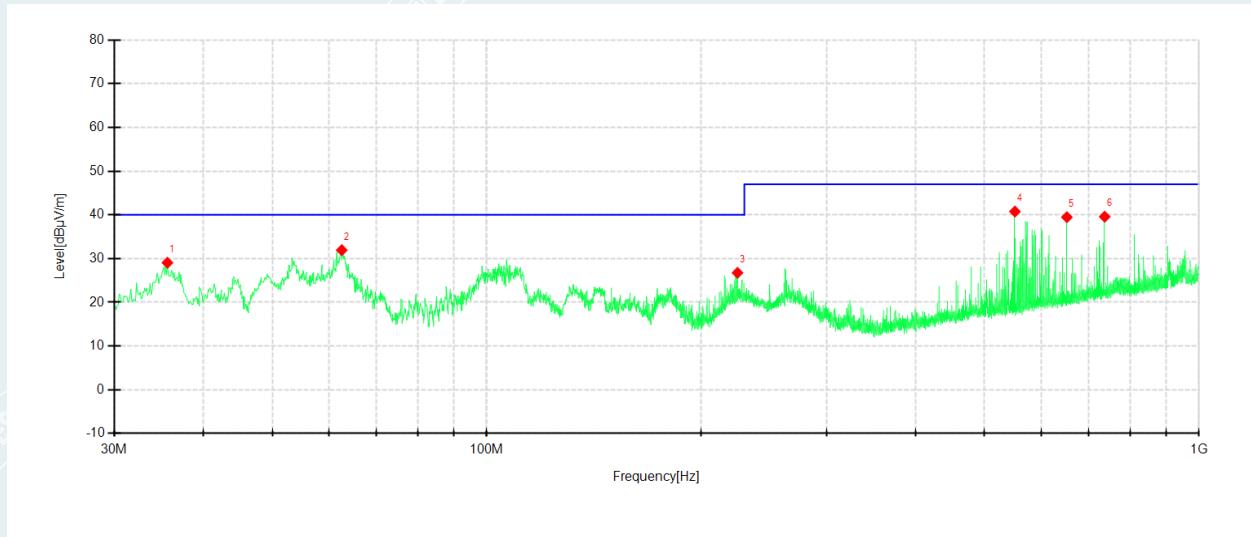
#### Suspected Data List

NO.	Freq. [MHz]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity
1	35.2380	62.07	32.46	-29.61	40.00	7.54	PK	100	167	Horizontal
2	48.4300	56.00	27.10	-28.90	40.00	12.90	PK	200	30	Horizontal
3	102.6530	57.85	26.26	-31.59	40.00	13.74	PK	200	2	Horizontal
4	241.7510	59.54	29.94	-29.60	47.00	17.06	PK	100	101	Horizontal
5	575.2370	61.43	41.61	-19.82	47.00	5.39	PK	200	204	Horizontal
6	677.5720	56.14	37.89	-18.25	47.00	9.11	PK	200	244	Horizontal

#### Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	QP Limit [dB $\mu$ V/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	576.0195	-19.82	46.41	26.59	47.00	20.41	190	194.5	Horizontal	PASS

EUT Name	Smart Lock U50	Model	DL-D05D
Environmental Conditions	23.1 °C/51%RH/101.0kPa	Test Mode	Mode 4
Power supply	AC 230V/50Hz	Tested By	Zhang Zishan
Test Date	2024-04-15	Sample No.	E20240410840201-0001



#### Suspected Data List

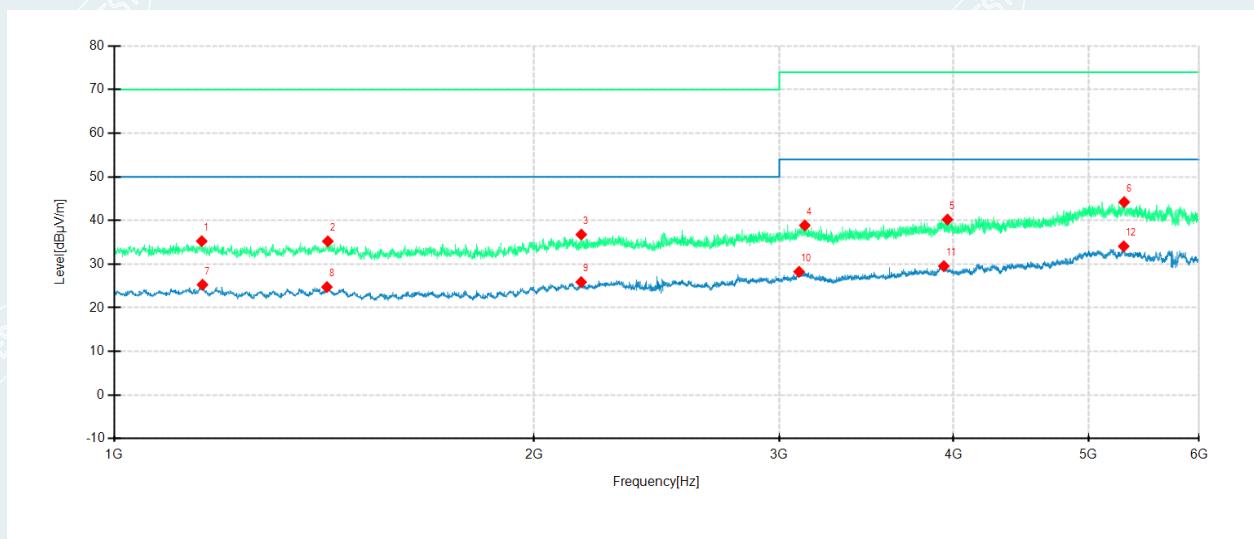
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1	35.6260	58.64	29.06	-29.58	40.00	10.94	PK	100	193	Vertical
2	62.5920	61.85	31.94	-29.91	40.00	8.06	PK	100	286	Vertical
3	224.9700	57.26	26.75	-30.51	40.00	13.25	PK	100	100	Vertical
4	551.5690	61.27	40.77	-20.50	47.00	6.23	PK	200	234	Vertical
5	652.4490	58.21	39.48	-18.73	47.00	7.52	PK	200	234	Vertical
6	737.2270	56.99	39.59	-17.40	47.00	7.41	PK	200	156	Vertical

#### Remark:

If the margin of the pre test results is greater than 6db, it meets the requirements of quasi peak values, and final testing is no longer required.

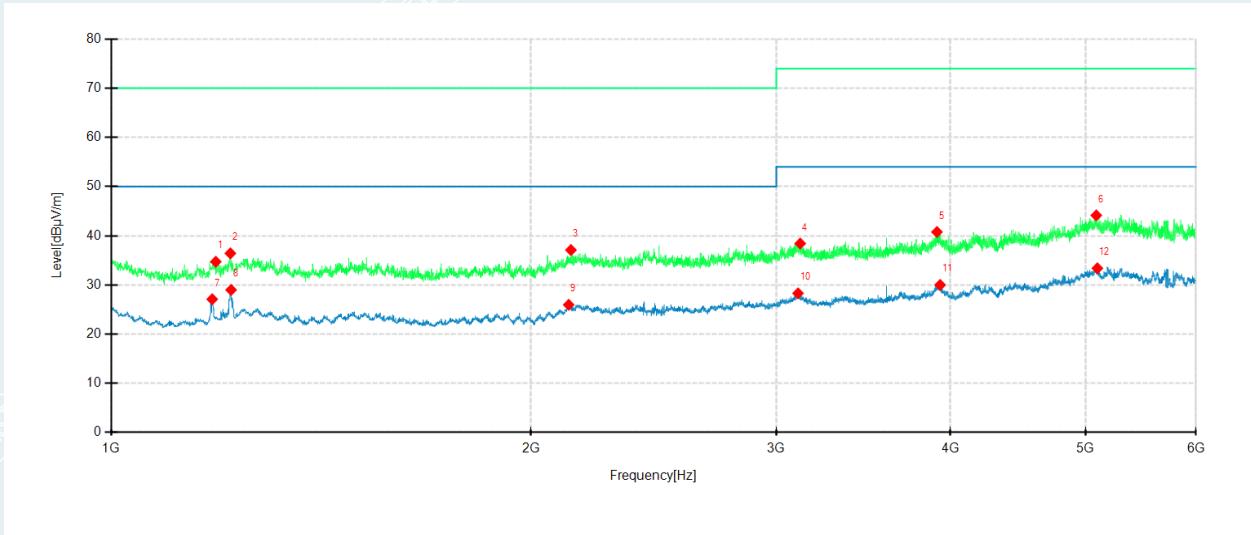
Above 1GHz

EUT Name	Smart Lock U50	Model	DL-D05D
Environmental Conditions	23.1°C/51%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 6V	Tested By	Zhang Zishan
Test Date	2024-04-15	Sample No.	E20240410840201-0001

**Suspected Data List**

NO.	Freq. [MHz]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1155.5000	55.64	35.27	-20.37	70.00	34.73	100	172	Horizontal
2	1423.0000	54.93	35.23	-19.70	70.00	34.77	200	220	Horizontal
3	2163.0000	53.67	36.79	-16.88	70.00	33.21	200	332	Horizontal
4	3129.0000	51.26	38.88	-12.38	74.00	35.12	200	185	Horizontal
5	3960.5000	49.84	40.22	-9.62	74.00	33.78	200	252	Horizontal
6	5303.0000	46.40	44.22	-2.18	74.00	29.78	100	58	Horizontal
7	1157.0000	45.67	25.29	-20.38	50.00	24.71	100	172	Horizontal
8	1421.0000	44.45	24.75	-19.70	50.00	25.25	200	168	Horizontal
9	2162.5000	42.77	25.89	-16.88	50.00	24.11	100	222	Horizontal
10	3099.5000	40.96	28.25	-12.71	54.00	25.75	100	340	Horizontal
11	3936.5000	39.18	29.54	-9.64	54.00	24.46	200	168	Horizontal
12	5298.5000	36.21	34.09	-2.12	54.00	19.91	100	91	Horizontal

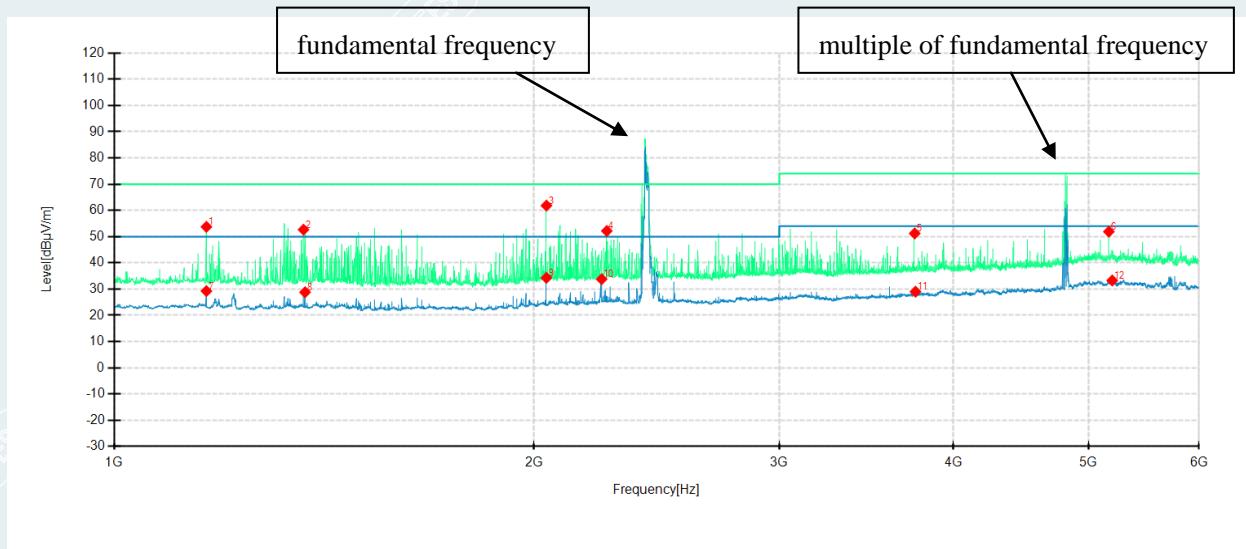
EUT Name	Smart Lock U50	Model	DL-D05D
Environmental Conditions	23.1 °C/51%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 6V	Tested By	Zhang Zishan
Test Date	2024-04-15	Sample No.	E20240410840201-0001



#### Suspected Data List

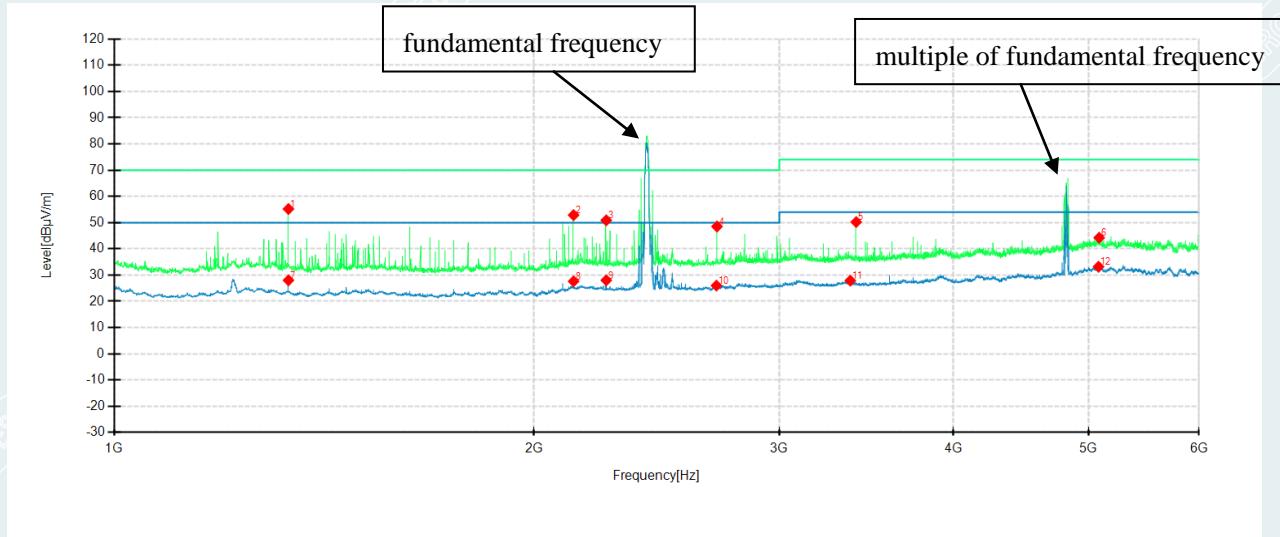
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1188.5000	55.68	34.72	-20.96	70.00	35.28	100	19	Vertical
2	1217.5000	56.62	36.43	-20.19	70.00	33.57	100	169	Vertical
3	2137.0000	53.52	37.10	-16.42	70.00	32.90	200	240	Vertical
4	3120.5000	50.98	38.42	-12.56	74.00	35.58	100	235	Vertical
5	3911.5000	50.34	40.77	-9.57	74.00	33.23	100	53	Vertical
6	5089.0000	47.54	44.15	-3.39	74.00	29.85	100	119	Vertical
7	1181.5000	48.17	27.10	-21.07	50.00	22.90	200	44	Vertical
8	1219.0000	49.13	28.99	-20.14	50.00	21.01	100	169	Vertical
9	2129.0000	42.60	25.96	-16.64	50.00	24.04	100	85	Vertical
10	3109.5000	40.83	28.30	-12.53	54.00	25.70	200	159	Vertical
11	3932.0000	39.55	30.00	-9.55	54.00	24.00	100	252	Vertical
12	5098.0000	36.76	33.38	-3.38	54.00	20.62	100	119	Vertical

EUT Name	Smart Lock U50	Model	DL-D05D
Environmental Conditions	23.1 °C/51%RH/101.0kPa	Test Mode	Mode 2
Power supply	DC 6V	Tested By	Zhang Zishan
Test Date	2024-04-15	Sample No.	E20240410840201-0001



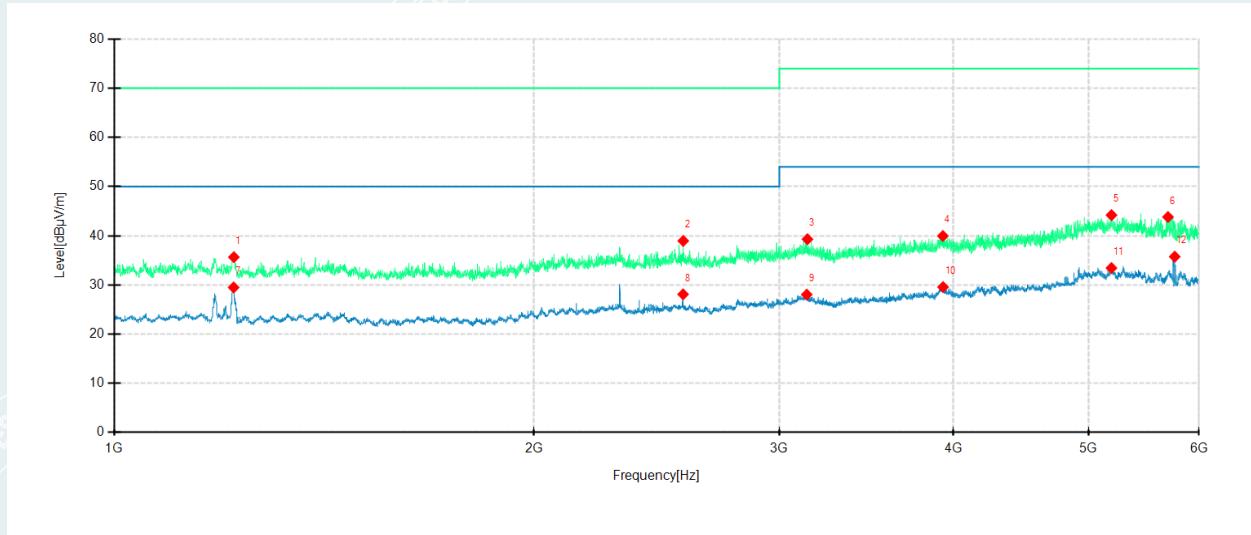
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1164.5000	74.21	53.75	-20.46	70.00	16.25	200	21	Horizontal
2	1367.0000	72.70	52.67	-20.03	70.00	17.33	200	188	Horizontal
3	2042.0000	79.29	61.85	-17.44	70.00	8.15	200	188	Horizontal
4	2256.0000	68.34	52.18	-16.16	70.00	17.82	100	175	Horizontal
5	3751.5000	62.20	51.23	-10.97	74.00	22.77	100	140	Horizontal
6	5170.0000	55.48	51.89	-3.59	74.00	22.11	200	154	Horizontal
7	1164.5000	49.72	29.26	-20.46	50.00	20.74	200	21	Horizontal
8	1370.5000	48.81	28.81	-20.00	50.00	21.19	100	158	Horizontal
9	2042.0000	51.73	34.29	-17.44	50.00	15.71	200	188	Horizontal
10	2237.0000	50.19	33.80	-16.39	50.00	16.20	200	154	Horizontal
11	3756.5000	39.98	29.01	-10.97	54.00	24.99	200	287	Horizontal
12	5199.5000	36.37	33.29	-3.08	54.00	20.71	100	341	Horizontal

EUT Name	Smart Lock U50	Model	DL-D05D
Environmental Conditions	23.1 °C/51%RH/101.0kPa	Test Mode	Mode 2
Power supply	DC 6V	Tested By	Zhang Zishan
Test Date	2024-04-15	Sample No.	E20240410840201-0001



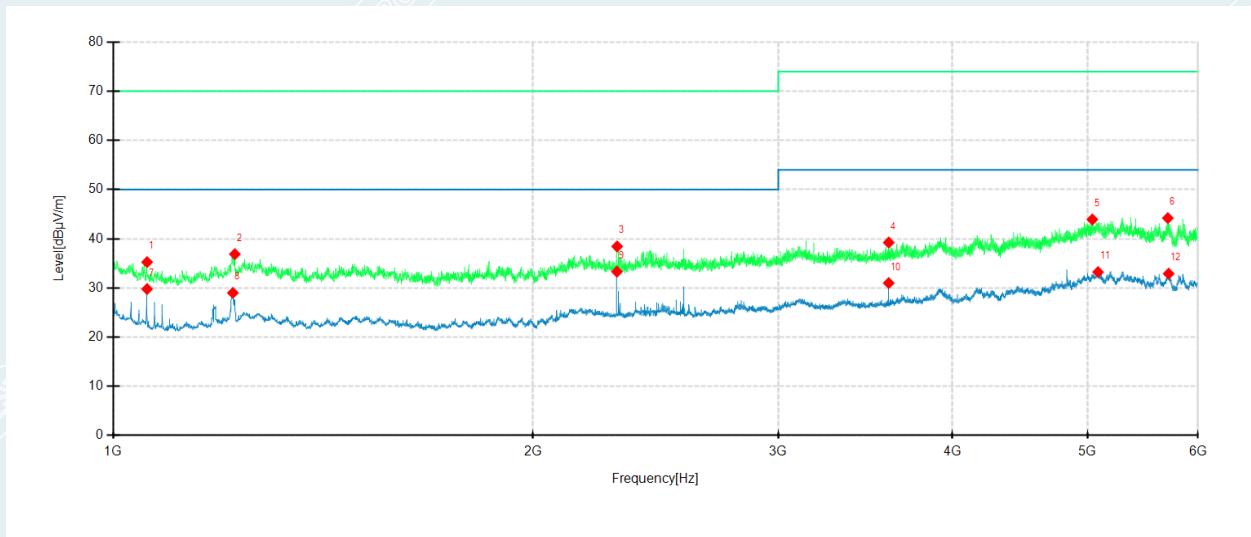
Suspected Data List									
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1	1333.5000	75.61	55.20	-20.41	70.00	14.80	200	123	Vertical
2	2135.5000	69.34	52.88	-16.46	70.00	17.12	200	174	Vertical
3	2254.0000	67.70	50.89	-16.81	70.00	19.11	200	106	Vertical
4	2706.5000	63.58	48.53	-15.05	70.00	21.47	200	174	Vertical
5	3406.0000	62.76	50.24	-12.52	74.00	23.76	200	22	Vertical
6	5088.0000	47.63	44.24	-3.39	74.00	29.76	100	272	Vertical
7	1333.5000	48.45	28.04	-20.41	50.00	21.96	200	123	Vertical
8	2135.5000	44.09	27.63	-16.46	50.00	22.37	200	174	Vertical
9	2254.0000	44.84	28.03	-16.81	50.00	21.97	200	123	Vertical
10	2704.0000	41.04	26.01	-15.03	50.00	23.99	100	239	Vertical
11	3373.0000	40.21	27.89	-12.32	54.00	26.11	200	340	Vertical
12	5083.0000	36.59	33.19	-3.40	54.00	20.81	200	272	Vertical

EUT Name	Smart Lock U50	Model	DL-D05D
Environmental Conditions	23.1 °C/51%RH/101.0kPa	Test Mode	Mode 3
Power supply	AC 230V/50Hz	Tested By	Zhang Zishan
Test Date	2024-04-15	Sample No.	E20240410840201-0001



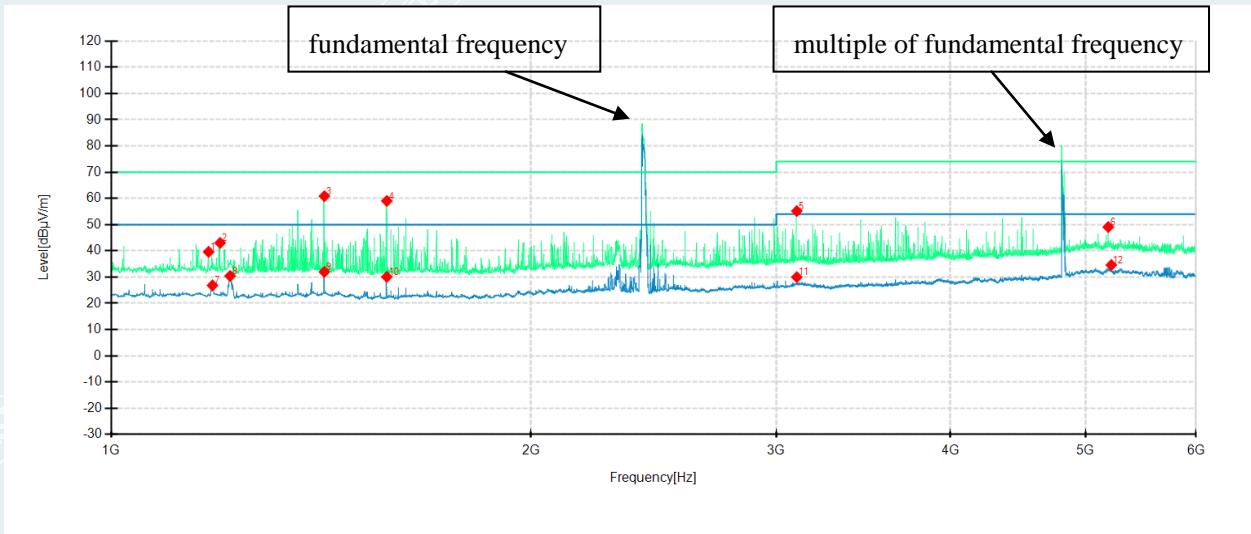
Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1218.5000	56.47	35.65	-20.82	70.00	34.35	200	123	Horizontal
2	2559.5000	54.32	38.95	-15.37	70.00	31.05	100	240	Horizontal
3	3142.5000	51.53	39.30	-12.23	74.00	34.70	200	7	Horizontal
4	3930.5000	49.68	39.95	-9.73	74.00	34.05	100	290	Horizontal
5	5192.5000	47.39	44.20	-3.19	74.00	29.80	200	123	Horizontal
6	5700.5000	46.33	43.82	-2.51	74.00	30.18	100	305	Horizontal
7	1218.0000	50.30	29.49	-20.81	50.00	20.51	200	123	Horizontal
8	2559.0000	43.46	28.10	-15.36	50.00	21.90	100	240	Horizontal
9	3139.0000	40.31	28.04	-12.27	54.00	25.96	200	274	Horizontal
10	3931.5000	39.28	29.57	-9.71	54.00	24.43	100	240	Horizontal
11	5192.0000	36.64	33.44	-3.20	54.00	20.56	100	256	Horizontal
12	5764.0000	38.48	35.75	-2.73	54.00	18.25	100	240	Horizontal

EUT Name	Smart Lock U50	Model	DL-D05D
Environmental Conditions	23.1 °C/51%RH/101.0kPa	Test Mode	Mode 3
Power supply	AC 230V/50Hz	Tested By	Zhang Zishan
Test Date	2024-04-15	Sample No.	E20240410840201-0001



Suspected Data List									
NO.	Freq. [MHz]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Factor [dB]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1057.5000	56.93	35.25	-21.68	70.00	34.75	100	23	Vertical
2	1222.5000	56.88	36.87	-20.01	70.00	33.13	100	171	Vertical
3	2298.5000	55.14	38.43	-16.71	70.00	31.57	200	171	Vertical
4	3600.0000	50.99	39.23	-11.76	74.00	34.77	100	140	Vertical
5	5039.5000	47.52	43.92	-3.60	74.00	30.08	100	340	Vertical
6	5708.5000	46.85	44.20	-2.65	74.00	29.80	200	21	Vertical
7	1057.5000	51.46	29.78	-21.68	50.00	20.22	100	204	Vertical
8	1218.5000	49.15	29.00	-20.15	50.00	21.00	100	140	Vertical
9	2298.0000	50.02	33.31	-16.71	50.00	16.69	200	171	Vertical
10	3600.0000	42.75	30.99	-11.76	54.00	23.01	100	290	Vertical
11	5087.0000	36.62	33.23	-3.39	54.00	20.77	200	154	Vertical
12	5716.0000	35.60	32.90	-2.70	54.00	21.10	200	53	Vertical

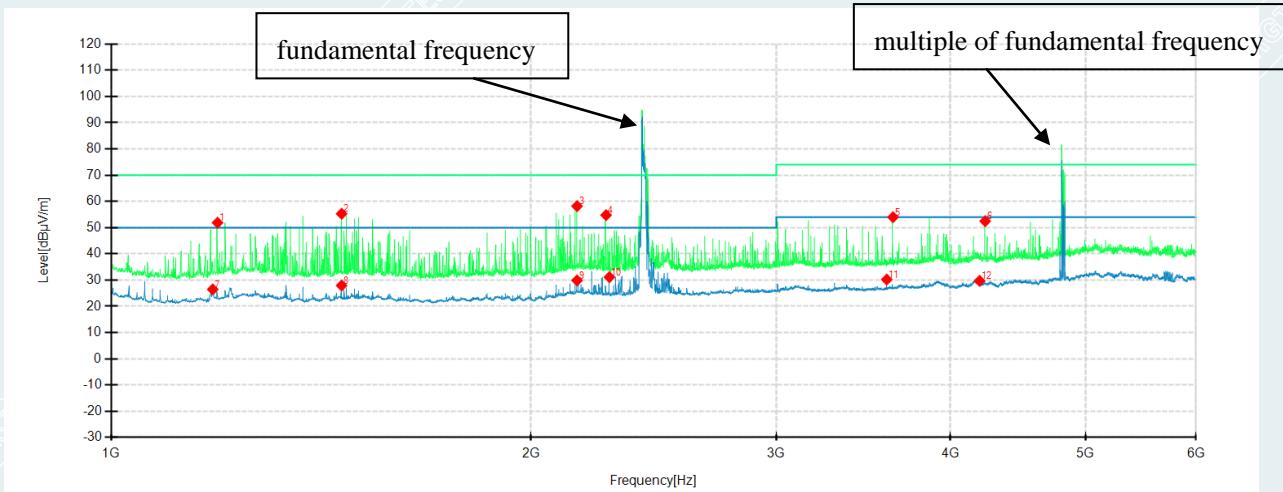
EUT Name	Smart Lock U50	Model	DL-D05D
Environmental Conditions	23.1 °C/51%RH/101.0kPa	Test Mode	Mode 4
Power supply	AC 230V/50Hz	Tested By	Zhang Zishan
Test Date	2024-04-15	Sample No.	E20240410840201-0001



#### Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1174.5000	60.19	39.63	-20.56	70.00	30.37	100	289	Horizontal
2	1197.0000	63.81	43.04	-20.77	70.00	26.96	100	255	Horizontal
3	1422.0000	80.56	60.86	-19.70	70.00	9.14	100	205	Horizontal
4	1576.5000	79.47	59.03	-20.44	70.00	10.97	200	56	Horizontal
5	3103.0000	67.86	55.19	-12.67	74.00	18.81	100	205	Horizontal
6	5190.5000	52.32	49.09	-3.23	74.00	24.91	100	306	Horizontal
7	1182.0000	47.46	26.84	-20.62	50.00	23.16	100	355	Horizontal
8	1217.0000	51.25	30.43	-20.82	50.00	19.57	100	289	Horizontal
9	1422.0000	51.68	31.98	-19.70	50.00	18.02	100	205	Horizontal
10	1576.5000	50.55	30.11	-20.44	50.00	19.89	200	56	Horizontal
11	3103.0000	42.67	30.00	-12.67	54.00	24.00	100	205	Horizontal
12	5216.5000	37.86	34.61	-3.25	54.00	19.39	100	138	Horizontal

EUT Name	Smart Lock U50	Model	DL-D05D
Environmental Conditions	23.1 °C/51%RH/101.0kPa	Test Mode	Mode 4
Power supply	AC 230V/50Hz	Tested By	Zhang Zishan
Test Date	2024-04-15	Sample No.	E20240410840201-0001



#### Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1192.0000	72.80	51.88	-20.92	70.00	18.12	100	191	Vertical
2	1463.0000	75.19	55.30	-19.89	70.00	14.70	100	191	Vertical
3	2158.5000	74.32	58.21	-16.11	70.00	11.79	100	140	Vertical
4	2264.5000	71.55	54.77	-16.78	70.00	15.23	200	54	Vertical
5	3637.5000	65.65	53.99	-11.66	74.00	20.01	100	39	Vertical
6	4235.5000	61.30	52.47	-8.83	74.00	21.53	100	274	Vertical
7	1182.5000	47.50	26.45	-21.05	50.00	23.55	200	320	Vertical
8	1463.0000	47.82	27.93	-19.89	50.00	22.07	100	191	Vertical
9	2158.5000	46.00	29.89	-16.11	50.00	20.11	100	140	Vertical
10	2277.0000	47.90	31.14	-16.76	50.00	18.86	100	324	Vertical
11	3600.0000	41.99	30.23	-11.76	54.00	23.77	100	306	Vertical
12	4197.0000	38.51	29.72	-8.79	54.00	24.28	100	23	Vertical

Remark: The fundamental frequency or multiple of fundamental frequency's limit is controlled to the standard of Radio frequency.

## 6.2 CONDUCTED EMISSION MEASUREMENT (CE)

Test Requirement: AS/NZS CISPR 32:2015

Test Method: EN 55032 /annex A.3

### 6.2.1 LIMITS

Frequency (MHz)	Quasi-peak (dB $\mu$ V)	Average (dB $\mu$ V)
0.15~0.5	66~56	56~46
0.5~5	56	46
5~30	60	50

**NOTE:** (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases in line with the logarithm of the frequency in the range of 0.15~0.5 MHz.

### 6.2.2 TEST PROCEDURES

The test method shall be in accordance with CENELEC EN 55032 [1] annex A.3 and the Artificial Mains Networks (AMNs) shall be connected to the AC mains power source.

The measurement frequency range extends from 150kHz to 30MHz. When the EUT is a transmitter operating at frequencies below 30MHz, then the exclusion band for transmitters applies for measurements in the transmit mode of operation.

#### (1) Procedure of Preliminary Test

For measurement of the disturbance voltage the equipment under test (EUT) is connected to the power supply mains and any other extended network via one or more artificial network(s). A EUT, whether intended to be grounded or not, and which is to be used on a table is configured as follows:

--Either the bottom or the rear of the EUT shall be at a controlled distance of 40cm from a reference ground plane. This ground plane is normally the wall or floor of a shielded room. It may also be a grounded metal plane of at least 2m by 2m. This is physically accomplished as follows:

1) Place the EUT on a table of non-conducting material which is at least 80cm high. Place the EUT so that it is 40 cm from the wall of the shielded room, or

2) Place the EUT on a table of non-conducting material which is 40cm high so that the bottom of the EUT is 40 cm above the ground plane.

-- All other conductive surfaces of the EUT shall be at least 80 cm from the reference ground plane.

-- The AANs are placed on the floor that one side of the AAN housings is 40cm from the vertical reference ground plane and other metallic parts.

-- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30cm to 40cm long, hanging approximately in the middle between the ground plane and the table.

-- I/O cables that are connected to a peripheral shall be bundled in the centre. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1 m.

The test mode(s) were scanned during the preliminary test. After the preliminary scan, we found the test mode producing the highest emission level. The EUT configuration and cable configuration of the above highest emission levels were recorded for reference of the final test.

## (2) Procedure of Final Test

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test. A scan was taken on both power lines, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

### 6.2.3 TEST SETUP

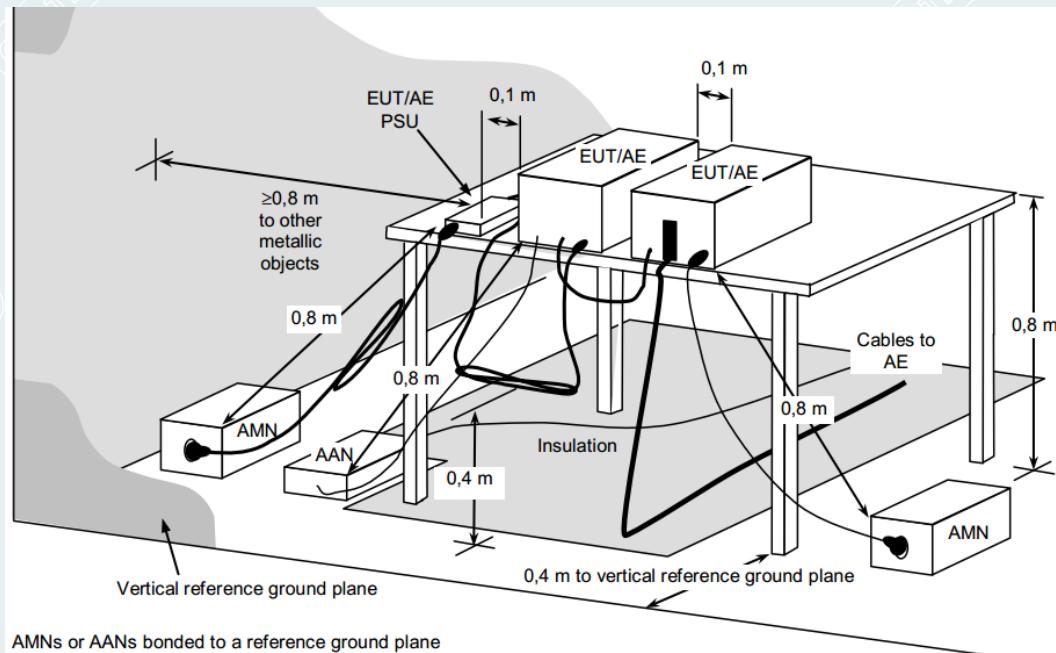


Figure 7.2-1: Test arrangement for Conducted emission measurement

### 6.2.4 DATE SAMPLE

Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)
X.XXXX	32.69	25.65	11.52	44.21	37.17	65.78	55.79	-21.57	-18.62

- Factor = Insertion loss of LISN + Cable Loss
- Result = Quasi-peak Reading/ Average Reading + Factor
- Limit = Limit stated in standard
- Margin = Result (dBuV) – Limit (dBuV)

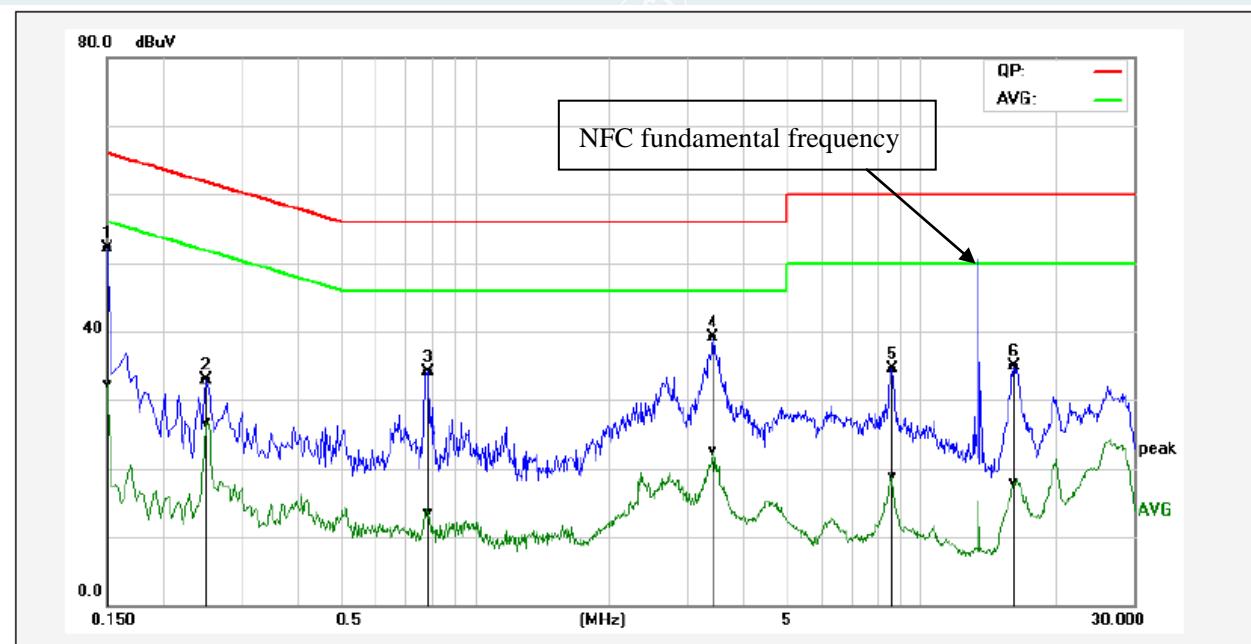
### 6.2.5 PHOTOGRAPH OF THE TEST ARRANGEMENT

Please refer to the attached document E20240410840201-6 Test photo

## 6.2.6 TEST RESULTS

EUT Name	Smart Lock U50	Model	DL-D05D
Environmental Conditions	27.7°C/58%RH/101.0kPa	Test Mode	Mode 3
Power supply	AC 230V/50Hz	Tested By	Zhang Zishan
Test Date	2024-04-17	Sample No.	E20240410840201-0001

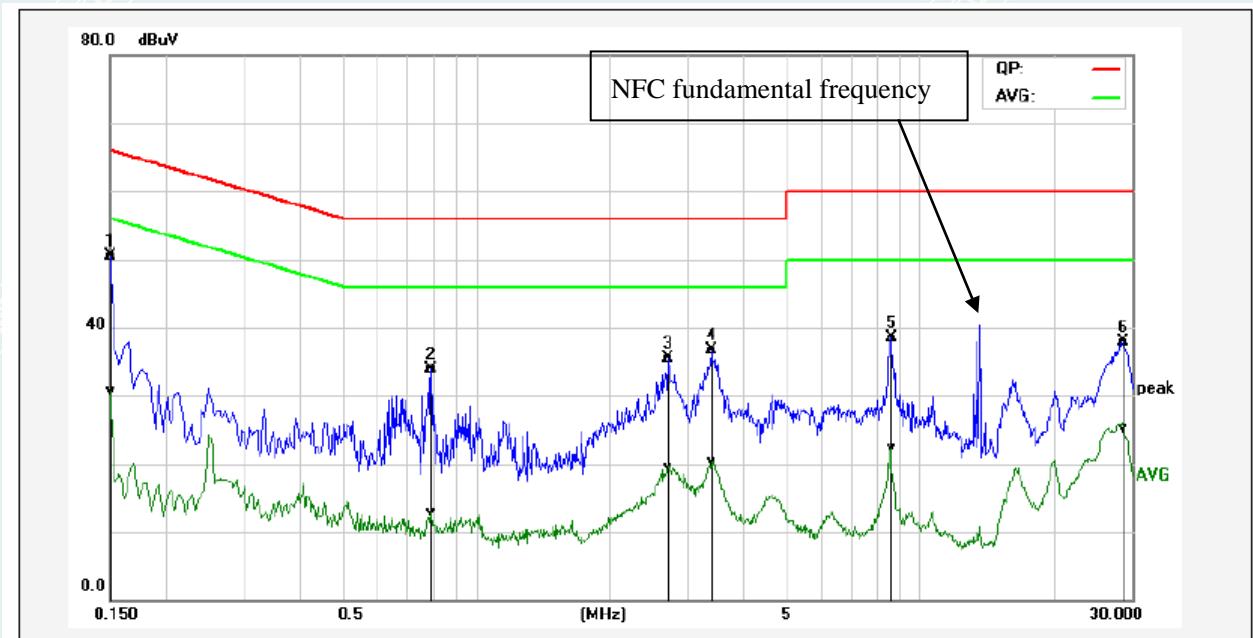
Line: L1



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	42.36	22.53	9.75	52.11	32.28	65.99	56.00	-13.88	-23.72	Pass
2	0.2500	23.21	16.96	9.69	32.90	26.65	61.75	51.76	-28.85	-25.11	Pass
3	0.7860	24.41	3.81	9.70	34.11	13.51	56.00	46.00	-21.89	-32.49	Pass
4	3.4340	29.11	12.65	9.90	39.01	22.55	56.00	46.00	-16.99	-23.45	Pass
5	8.6260	24.70	8.82	9.81	34.51	18.63	60.00	50.00	-25.49	-31.37	Pass
6	16.1700	24.95	7.88	9.95	34.90	17.83	60.00	50.00	-25.10	-32.17	Pass

EUT Name	Smart Lock U50	Model	DL-D05D
Environmental Conditions	27.7 °C/58%RH/101.0kPa	Test Mode	Mode 3
Power supply	AC 230V/50Hz	Tested By	Zhang Zishan
Test Date	2024-04-17	Sample No.	E20240410840201-0001

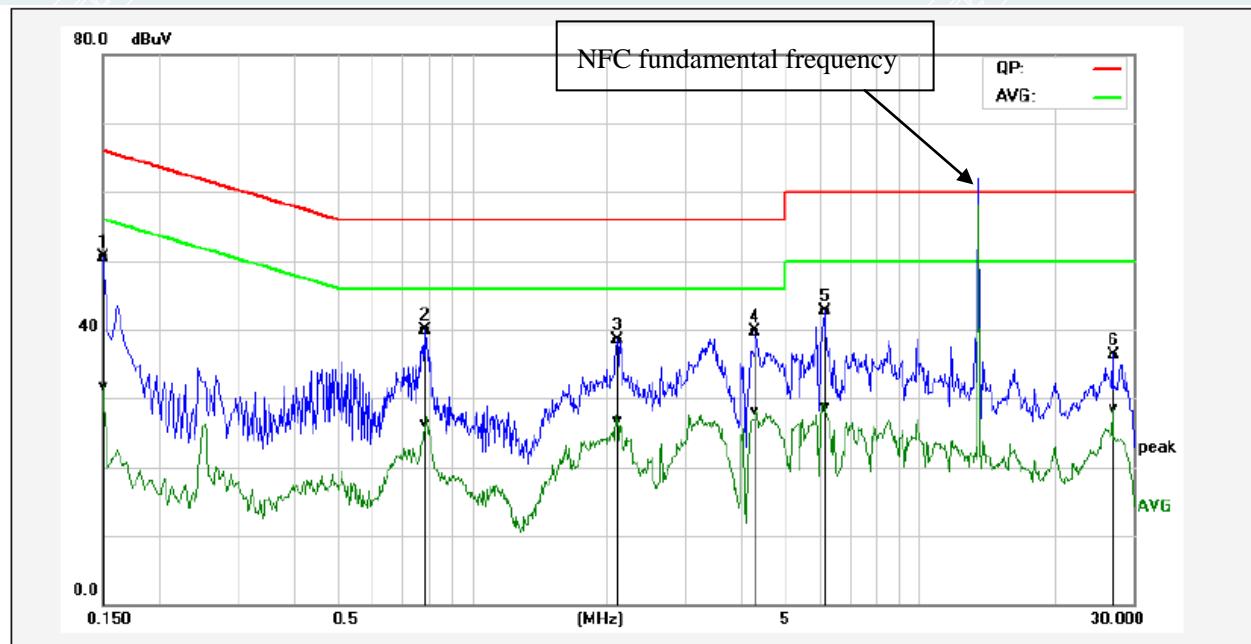
Line: N



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	40.84	20.99	9.70	50.54	30.69	65.99	56.00	-15.45	-25.31	Pass
2	0.7940	24.30	3.27	9.69	33.99	12.96	56.00	46.00	-22.01	-33.04	Pass
3	2.7100	25.62	9.69	9.89	35.51	19.58	56.00	46.00	-20.49	-26.42	Pass
4	3.3900	26.72	10.51	9.89	36.61	20.40	56.00	46.00	-19.39	-25.60	Pass
5	8.6180	28.59	12.47	9.85	38.44	22.32	60.00	50.00	-21.56	-27.68	Pass
6	28.7540	27.53	14.71	10.30	37.83	25.01	60.00	50.00	-22.17	-24.99	Pass

EUT Name	Smart Lock U50	Model	DL-D05D
Environmental Conditions	27.7 °C/58%RH/101.0kPa	Test Mode	Mode 4
Power supply	AC 230V/50Hz	Tested By	Zhang Zishan
Test Date	2024-04-17	Sample No.	E20240410840201-0001

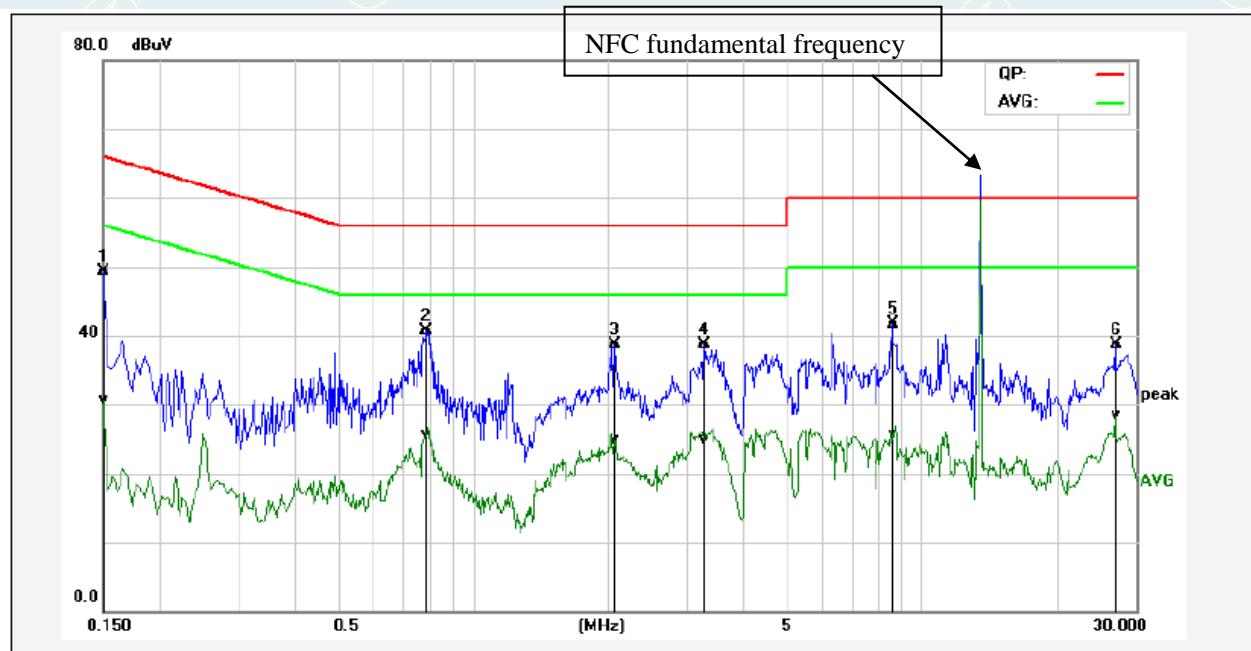
Line: L1



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	40.67	21.95	9.75	50.42	31.70	65.99	56.00	-15.57	-24.30	Pass
2	0.7860	30.21	16.66	9.70	39.91	26.36	56.00	46.00	-16.09	-19.64	Pass
3	2.1140	28.72	16.88	9.80	38.52	26.68	56.00	46.00	-17.48	-19.32	Pass
4	4.3060	29.93	18.31	9.75	39.68	28.06	56.00	46.00	-16.32	-17.94	Pass
5	6.1420	32.88	18.98	9.77	42.65	28.75	60.00	50.00	-17.35	-21.25	Pass
6	27.1180	26.03	18.28	10.22	36.25	28.50	60.00	50.00	-23.75	-21.50	Pass

EUT Name	Smart Lock U50	Model	DL-D05D
Environmental Conditions	27.7°C/58%RH/101.0kPa	Test Mode	Mode 4
Power supply	AC 230V/50Hz	Tested By	Zhang Zishan
Test Date	2024-04-17	Sample No.	E20240410840201-0001

Line: N



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1500	39.57	20.92	9.70	49.27	30.62	65.99	56.00	-16.72	-25.38	Pass
2*	0.7900	30.97	16.10	9.69	40.66	25.79	56.00	46.00	-15.34	-20.21	Pass
3	2.0740	28.87	15.19	9.79	38.66	24.98	56.00	46.00	-17.34	-21.02	Pass
4	3.2860	28.73	14.92	9.92	38.65	24.84	56.00	46.00	-17.35	-21.16	Pass
5	8.6059	31.81	15.86	9.85	41.66	25.71	60.00	50.00	-18.34	-24.29	Pass
6	27.1220	28.41	18.30	10.29	38.70	28.59	60.00	50.00	-21.30	-21.41	Pass

Remark: The fundamental frequency or multiple of fundamental frequency's limit is controlled to the standard of Radio frequency.

## APPENDIX A. PHOTOGRAPHS OF EUT

Please refer to the attached document E20240410840201-7-EUT Photo.

----- End of Report -----